

## **ABSTRACT OF DISCLOSURE**

The invention relates to a device to filter and damp the vibrations between a first element (1) subjected to an incident vibratory wave and a second element (2) radiating a filtered vibratory wave

This device comprises an interface structure (10) to transfer vibratory energy constituted by at least one elastic component (1) and at least one dissipative component (7) attached in parallel to the elastic component to ensure the filtration and damping of the incident vibratory wave, the dissipative component (7) being constituted by two separate rigid frames (4, 5) ensuring, punctually or continuously, deflection functions, if required, by a lever arm effect, amplification of the vibratory energies generated by the elastic components (1) towards a dissipative material (6) positioned between them, said dissipative component (6) providing damping for the elastic component.